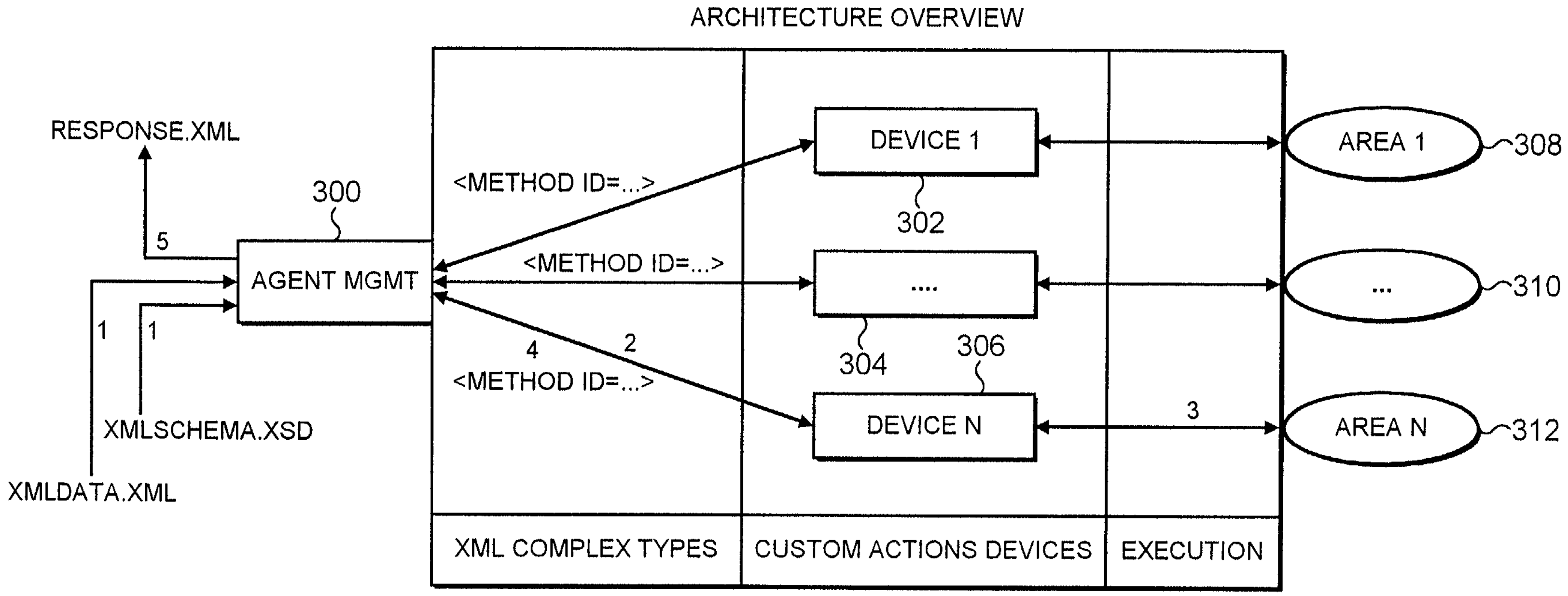
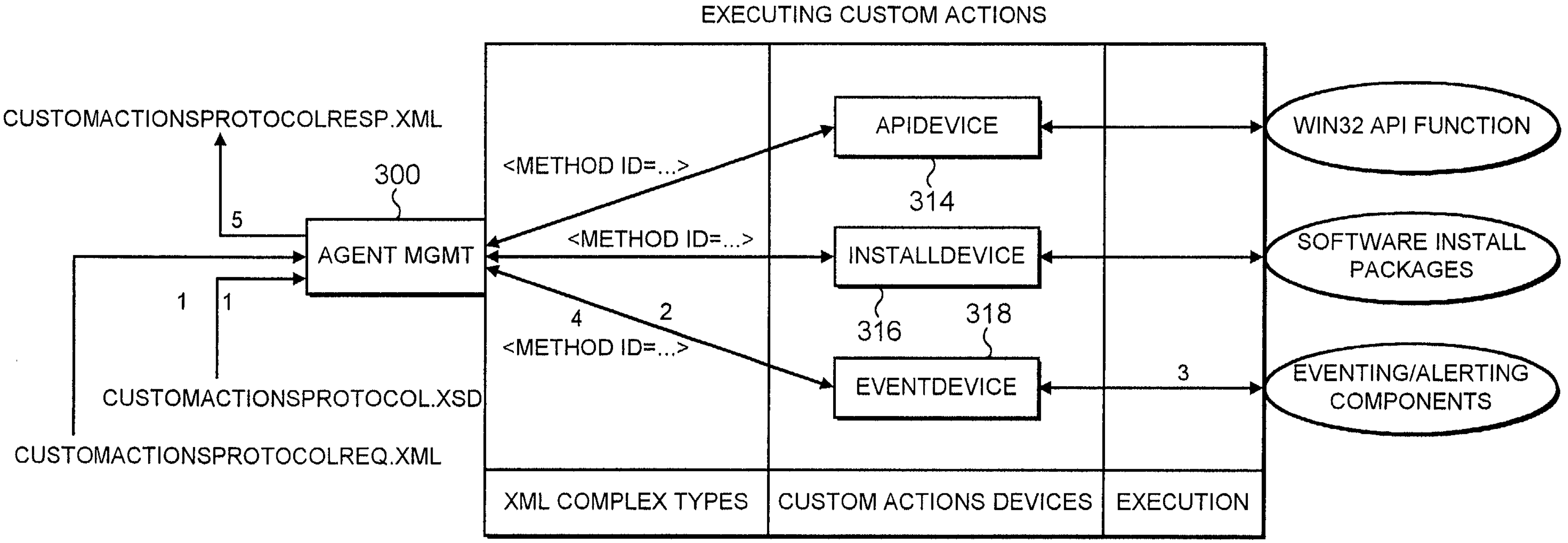


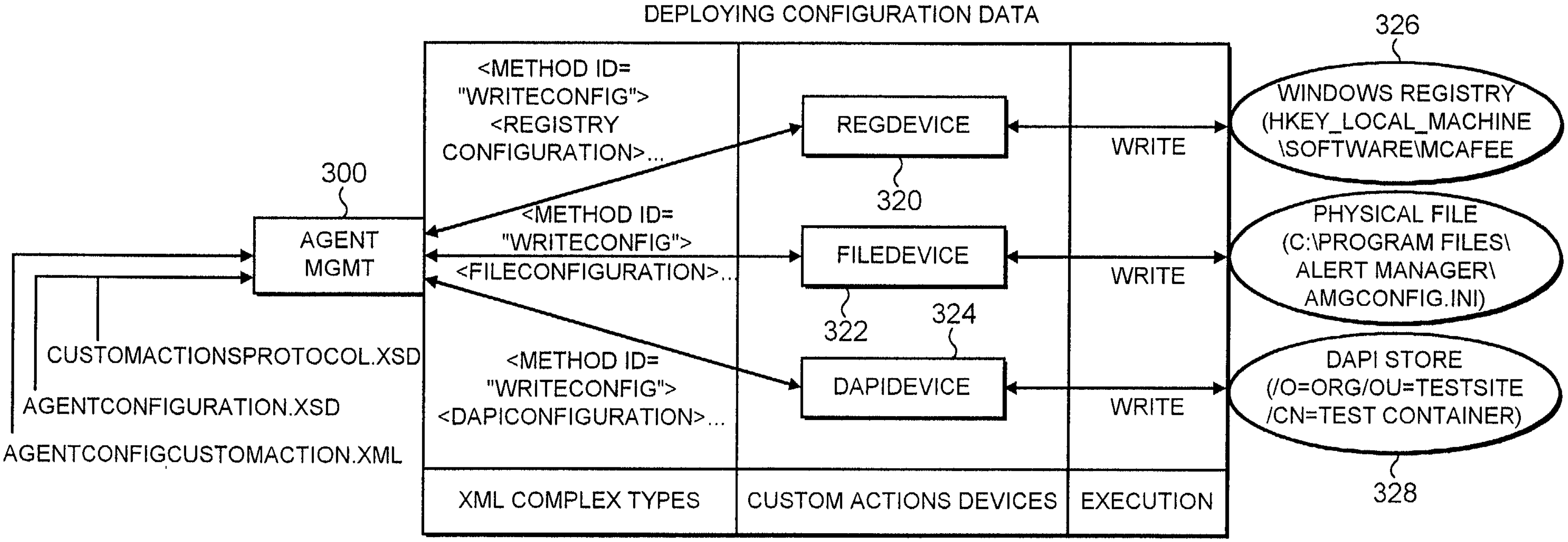
1) REQUEST XML FILE IS PASSED TO AGENT MGMT CONTAINING COMPLEX TYPES AGENT MGMT SPLITS THE DATA INTO PARTS AND HANDS THE <METHOD> OVER TO THE CORRESPONDING CUSTOM ACTION DEVICES
2) THE COMPLEX TYPE <METHOD> DESCRIBES THE METHOD TO EXECUTE AND ITS PARAMETERS
3) CUSTOM ACTIONS DEVICES EXECUTE THE FUNCTIONS IN A CERTAIN AREA THEY ARE RESPONSIBLE FOR AND PACK THE RESULT INTO XML COMPLEX TYPES
4) COMPLEX TYPES CONTAINING RESULT DATA ARE RETURNED TO AGENT MGMT
5) XML STREAM HAS BEEN PACKED AND IS RETURNED

FIG. 1



1) REQUEST XML FILE IS PASSED TO AGENT MGMT CONTAINING COMPLEX TYPES
2) THE COMPLEX TYPE <METHOD> DESCRIBES THE METHOD TO EXECUTE AND ITS PARAMETERS
EACH <METHOD> IS PASSED TO THE CORRESPONDING CUSTOM ACTIONS DEVICE
3) CUSTOM ACTIONS DEVICES EXECUTE THE FUNCTIONS AND PACK THE RESULT INTO XML COMPLEX TYPES
4) COMPLEX TYPES CONTAINING RESULT DATA ARE RETURNED TO AGENT MGMT
5) XML STREAM HAS BEEN PACKED AND IS RETURNED

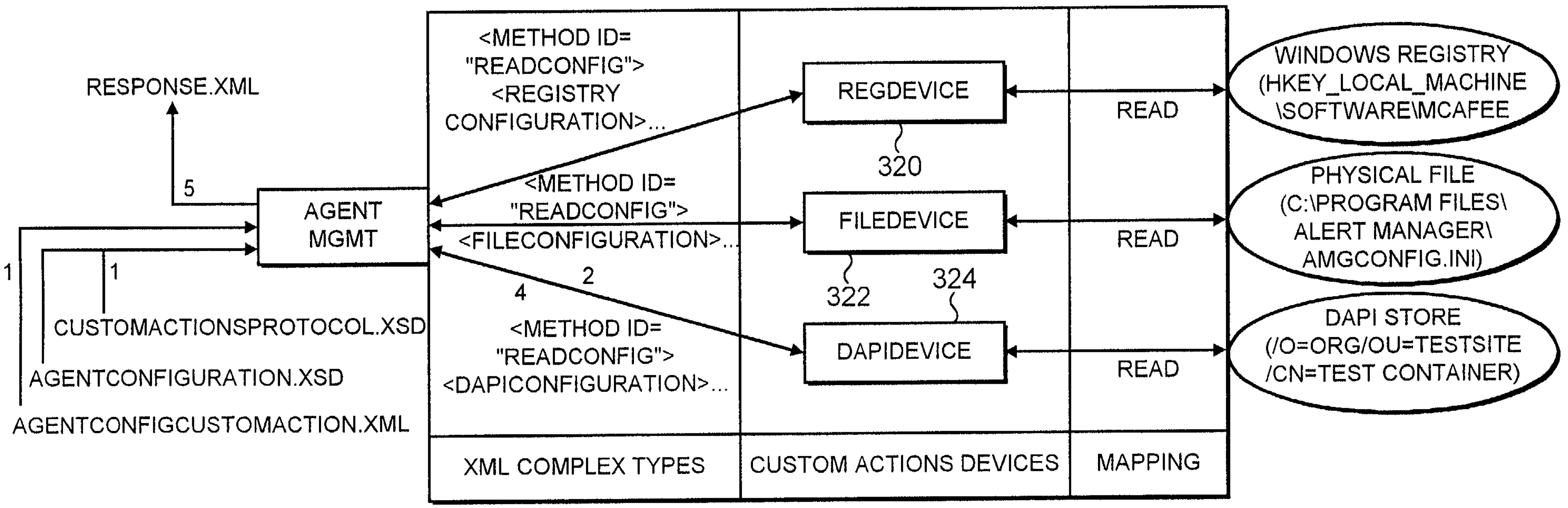
FIG. 2


DEPLOYING CONFIGURATION DATA
300
AGENT MGMT
CUSTOMACTIONSPROTOCOL.XSD
AGENTCONFIGURATION.XSD
AGENTCONFIGCUSTOMACTION.XML
<METHOD ID= "WRITECONFIG"> <REGISTRY CONFIGURATION>...
<METHOD ID= "WRITECONFIG"> <FILECONFIGURATION>...
<METHOD ID= "WRITECONFIG"> <DAPICONFIGURATION>...
REGDEVICE
320
FILEDEVICE
322
324
DAPIDEVICE
WRITE
WRITE
WRITE
326
WINDOWS REGISTRY (HKEY_LOCAL_MACHINE \SOFTWARE\MCAFEE
PHYSICAL FILE (C:\PROGRAM FILES\ ALERT MANAGER\ AMGCONFIG.INI)
DAPI STORE (/O=ORG/OU=TESTSITE /CN=TEST CONTAINER)
328
XML COMPLEX TYPES
CUSTOM ACTIONS DEVICES
EXECUTION

1) AGENT MGMT RECEIVES AGENTCONFIGCUSTOMACTION.XML
2) .XML FILE IS VALIDATED AGAINST .XSD FILE(S) TO MAKE SURE VALID DATA IS WRITTEN
3) XML COMPLEX TYPES ARE SENT TO CUSTOM ACTIONS DEVICES, THE PARAMETERS CONTAINING THE CONFIGURATION DATA
4) CUSTOM ACTIONS DEVICES UPDATE THE CONFIG STORE THEY ARE RESPONSIBLE FOR
5) OPTIONALLY A RETURN VALUE CAN BE RETURNED AS A RESPONSE.XML FILE

FIG. 3

RETRIEVING CONFIGURATION DATA


RESPONSE.XML
5
AGENT MGMT
1
1
CUSTOMACTIONSPROTOCOL.XSD
AGENTCONFIGURATION.XSD
AGENTCONFIGCUSTOMACTION.XML
<METHOD ID= "READCONFIG"> <REGISTRY CONFIGURATION>...
<METHOD ID= "READCONFIG"> <FILECONFIGURATION>...
2
4
<METHOD ID= "READCONFIG"> <DAPICONFIGURATION>...
REGDEVICE
320
FILEDEVICE
322
324
DAPIDEVICE
READ
READ
READ
WINDOWS REGISTRY (HKEY_LOCAL_MACHINE \SOFTWARE\MCAFEE
PHYSICAL FILE (C:\PROGRAM FILES\ ALERT MANAGER\ AMGCONFIG.INI)
DAPI STORE (/O=ORG/OU=TESTSITE /CN=TEST CONTAINER)
XML COMPLEX TYPES
CUSTOM ACTIONS DEVICES
MAPPING

1) REQUEST XML FILE IS PASSED TO AGENT MGMT CONTAINING EMPTY REQUESTED COMPLEX TYPES
2) THE EMPTY COMPLEX TYPES ARE PASSED TO THE CUSTOM ACTIONS DEVICE
3) COMPLEX TYPES ARE FILLED BY MAPPING REQUIRES DATA FROM STORE
4) COMPLEX TYPES CONTAINING DATA ARE RETURNED TO AGENT MGMT
5) XML STREAM HAS BEEN PACKED AND IS RETURNED

FIG. 4

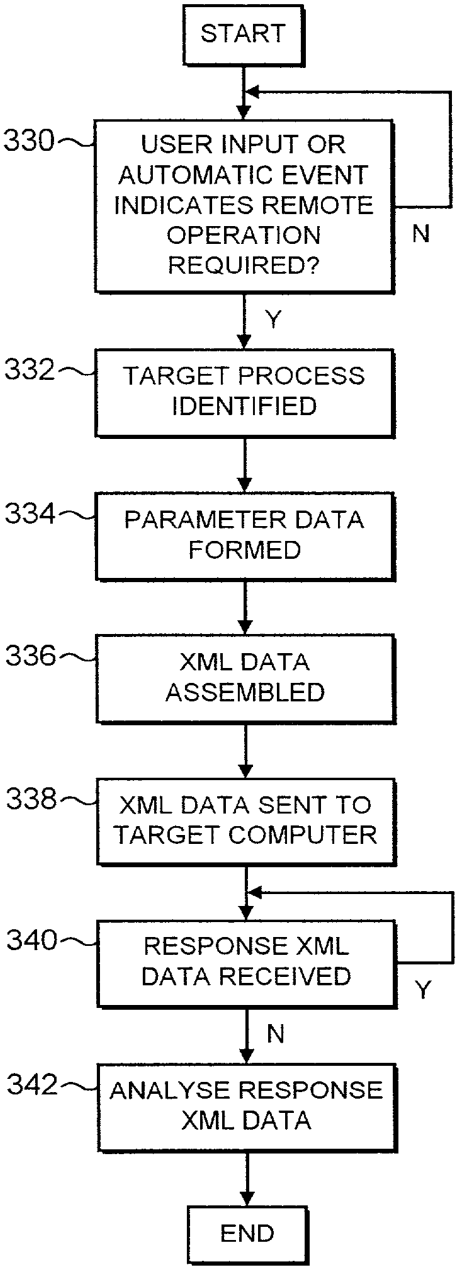

START
330
USER INPUT OR AUTOMATIC EVENT INDICATES REMOTE OPERATION REQUIRED?
N
Y
332
TARGET PROCESS IDENTIFIED
334
PARAMETER DATA FORMED
336
XML DATA ASSEMBLED
338
XML DATA SENT TO TARGET COMPUTER
340
RESPONSE XML DATA RECEIVED
Y
N
342
ANALYSE RESPONSE XML DATA
END

FIG. 5

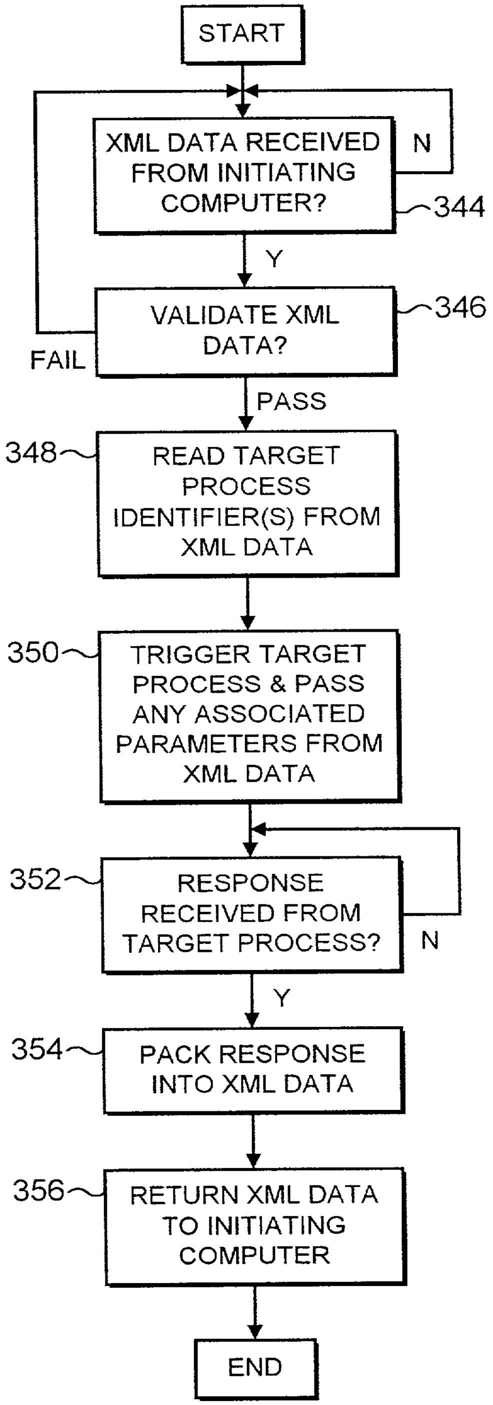

START
XML DATA RECEIVED FROM INITIATING COMPUTER?
N
344
Y
VALIDATE XML DATA?
346
FAIL
PASS
348
READ TARGET PROCESS IDENTIFIER(S) FROM XML DATA
350
TRIGGER TARGET PROCESS & PASS ANY ASSOCIATED PARAMETERS FROM XML DATA
352
RESPONSE RECEIVED FROM TARGET PROCESS?
N
Y
354
PACK RESPONSE INTO XML DATA
356
RETURN XML DATA TO INITIATING COMPUTER
END

FIG. 6

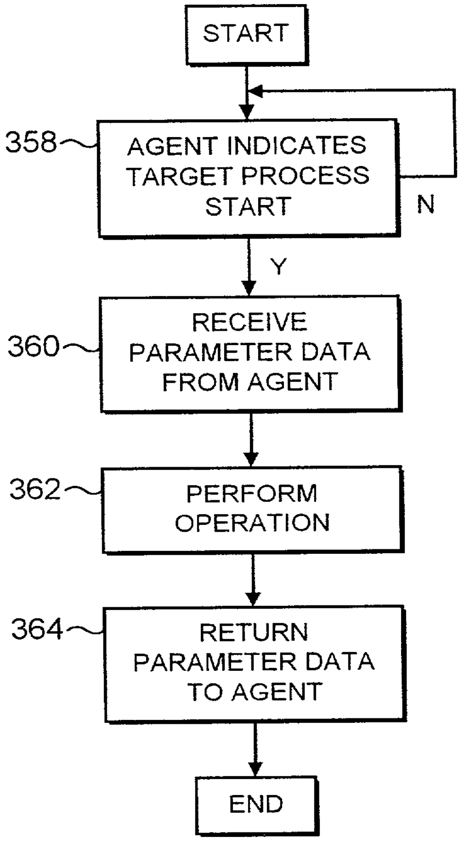
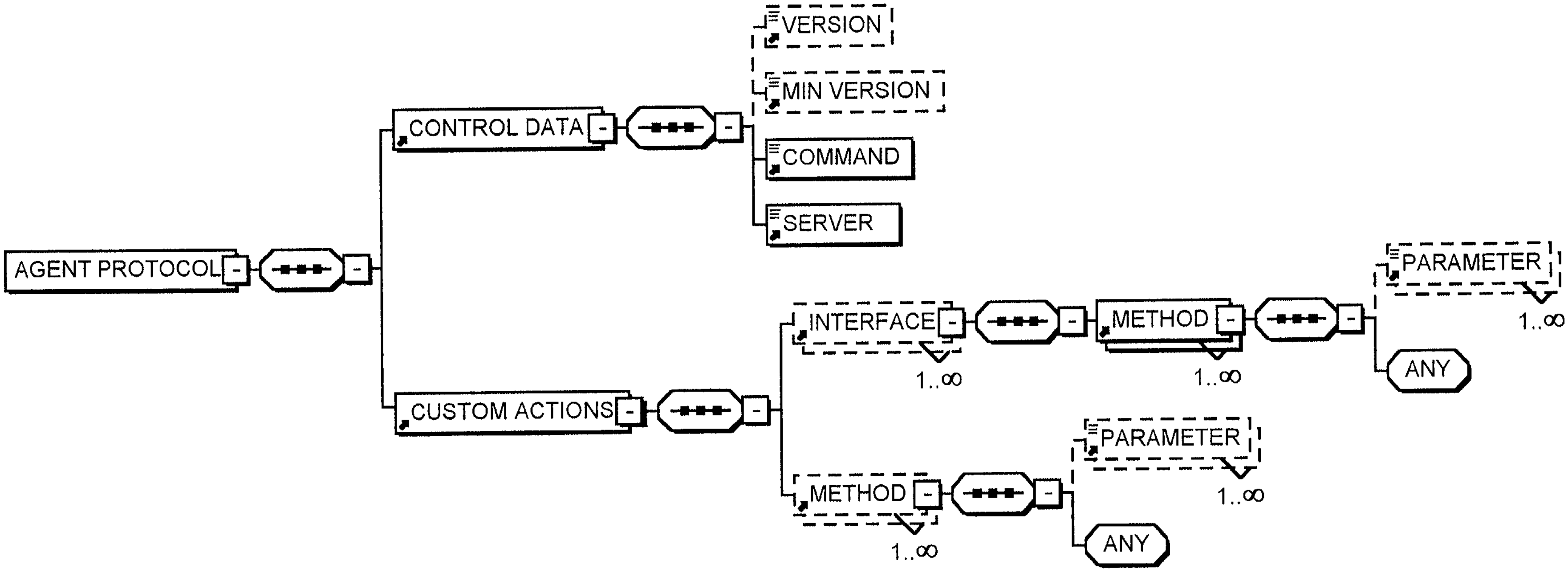

START
358
AGENT INDICATES TARGET PROCESS START
N
Y
360
RECEIVE PARAMETER DATA FROM AGENT
362
PERFORM OPERATION
364
RETURN PARAMETER DATA TO AGENT
END

FIG. 7

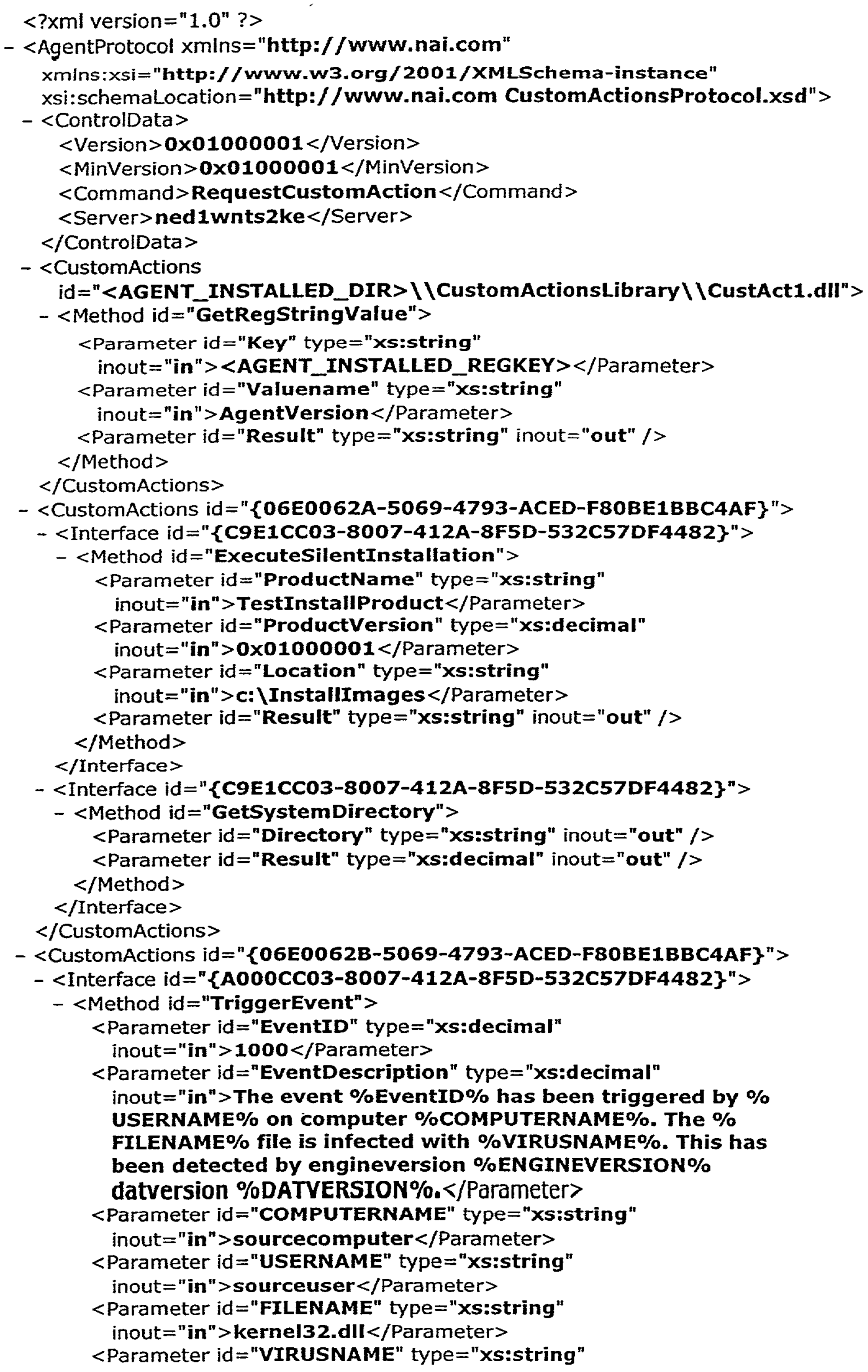
PROTOCOL SPECIFICATION		
<CONTROLDATA>		CONTAINS AGENT SPECIFIC CONTROL DATA LIKE VERSION INFORMATION, THE COMMAND TO EXECUTE AND COMPUTER INFORMATION SENDING THE CUSTOM ACTIONS INFORMATION
	<COMMAND>	THE COMMAND FIELD COULD BE USED TO EASILY DETERMINE IF DATA IS GOING TO BE RETRIEVED (REQUESTCUSTOMACTION) OR RETURNED AFTER THE ACTION HAS BEEN EXECUTED (RESPONDTOCUSTOMACTION) - OPTIONAL
	<SERVER>	COMPUTER INFORMATION OF THE SENDER. IF THE AGENT IS ABLE TO PROCESS REQUESTS IN PARALLEL AND ASYNCHRONOSLY, THIS INFORMATION IS USEFUL. THE SIMPLEST FORM OF THIS FIELD CONTAINS THE COMPUTER NAME
<CUSTOMACTIONS>		ANY NUMBER OF CUSTOM ACTION COM SERVERS OR DLLS OR EXECUTEABLES REQUIRED FOR THE TASKS ARE LISTED WITHIN THE CUSTOMACTIONS
	ID	THE ID SPECIFIES A CLSID IF THE CUSTOM ACTION METHOD IS CONTAINED IN A COM SERVER OR THE PATH TO A DLL/EXE FILE IF A LIBRARY OR AN EXECUTEABLE IMPLEMENTS THE METHOD TO EXECUTE. IF A CLSID IS SPECIFIED, THE FOLLOWING <INTERFACE> COMPLEX TYPE IS REQUIRED TO SPECIFY THE INTERFACE OF THE COM SERVER CONTAINING THE METHOD TO EXECUTE. OTHERWISE <INTERFACE> IS NOT REQUIRED AND ANY NUMBER OF <METHOD> TYPES FOLLOW IMMEDIATELY
	<INTERFACE>	ONLY REQUIRED IF THE <METHOD> IS IMPLEMENTED IN A COM SERVER
	ID	THE INTERFACE IDENTIFIER OF THE COM SERVER (IID)
	<METHOD>	ANY NUMBER OF METHODS IMPLEMENTED IN THE CUSTOM ACTION DEVICE
	ID	THE METHOD NAME. IN CASE OF A COM SERVER, THIS IS THE METHOD NAME OF THE COM INTERFACE, ELSE THIS DENOTES THE NAME OF AN EXPORTED FUNCTION OR E.G. A COMMAND LINE PARAMETER OF AN EXECUTABLE
	<PARAMETER>	ANY NUMBER OF PARAMETERS REQUIRED FOR THE METHOD. THIS INCLUDES REQUESTED OUT PARAMETERS, WHICH ARE LISTED, BUT DON'T CONTAIN DATA AND INOUT PARAMETERS WHICH HAVE A DIFFERENT VALUE ON RESPONSE THAN ON REQUEST
	ID	THE NAME OF THE PARAMETER
	TYPE	CAN BE ANY STANDARD XML DATATYPE
	INOUT	POSSIBLE VALUES ARE 'IN' AND 'INOUT'. SPECIFIES IF THE PARAMETER IS REQUESTED, PASSED TO THE FUNCTION OR PASSED TO THE FUNCTION FOR MODIFICATION
	<ANY>	ANY OTHER NON STANDARD XML DATATYPE CAN FOLLOW

FIG. 8



CUSTOM ACTIONS PROTOCOL XSOL

FIG. 9



```
  <?xml version="1.0" ?>
- <AgentProtocol xmlns="http://www.nai.com"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.nai.com CustomActionsProtocol.xsd">
  - <ControlData>
      <Version>0x01000001</Version>
      <MinVersion>0x01000001</MinVersion>
      <Command>RequestCustomAction</Command>
      <Server>ned1wnts2ke</Server>
    </ControlData>
  - <CustomActions
      id="<AGENT_INSTALLED_DIR>\\CustomActionsLibrary\\CustAct1.dll">
    - <Method id="GetRegStringValue">
        <Parameter id="Key" type="xs:string"
          inout="in"><AGENT_INSTALLED_REGKEY></Parameter>
        <Parameter id="Valuename" type="xs:string"
          inout="in">AgentVersion</Parameter>
        <Parameter id="Result" type="xs:string" inout="out" />
      </Method>
    </CustomActions>
  - <CustomActions id="{06E0062A-5069-4793-ACED-F80BE1BBC4AF}">
    - <Interface id="{C9E1CC03-8007-412A-8F5D-532C57DF4482}">
      - <Method id="ExecuteSilentInstallation">
          <Parameter id="ProductName" type="xs:string"
            inout="in">TestInstallProduct</Parameter>
          <Parameter id="ProductVersion" type="xs:decimal"
            inout="in">0x01000001</Parameter>
          <Parameter id="Location" type="xs:string"
            inout="in">c:\InstallImages</Parameter>
          <Parameter id="Result" type="xs:string" inout="out" />
        </Method>
      </Interface>
    - <Interface id="{C9E1CC03-8007-412A-8F5D-532C57DF4482}">
      - <Method id="GetSystemDirectory">
          <Parameter id="Directory" type="xs:string" inout="out" />
          <Parameter id="Result" type="xs:decimal" inout="out" />
        </Method>
      </Interface>
    </CustomActions>
  - <CustomActions id="{06E0062B-5069-4793-ACED-F80BE1BBC4AF}">
    - <Interface id="{A000CC03-8007-412A-8F5D-532C57DF4482}">
      - <Method id="TriggerEvent">
          <Parameter id="EventID" type="xs:decimal"
            inout="in">1000</Parameter>
          <Parameter id="EventDescription" type="xs:decimal"
            inout="in">The event %EventID% has been triggered by %
            USERNAME% on computer %COMPUTERNAME%. The %
            FILENAME% file is infected with %VIRUSNAME%. This has
            been detected by engineversion %ENGINEVERSION%
            datversion %DATVERSION%.</Parameter>
          <Parameter id="COMPUTERNAME" type="xs:string"
            inout="in">sourcecomputer</Parameter>
          <Parameter id="USERNAME" type="xs:string"
            inout="in">sourceuser</Parameter>
          <Parameter id="FILENAME" type="xs:string"
            inout="in">kernel32.dll</Parameter>
          <Parameter id="VIRUSNAME" type="xs:string"
```

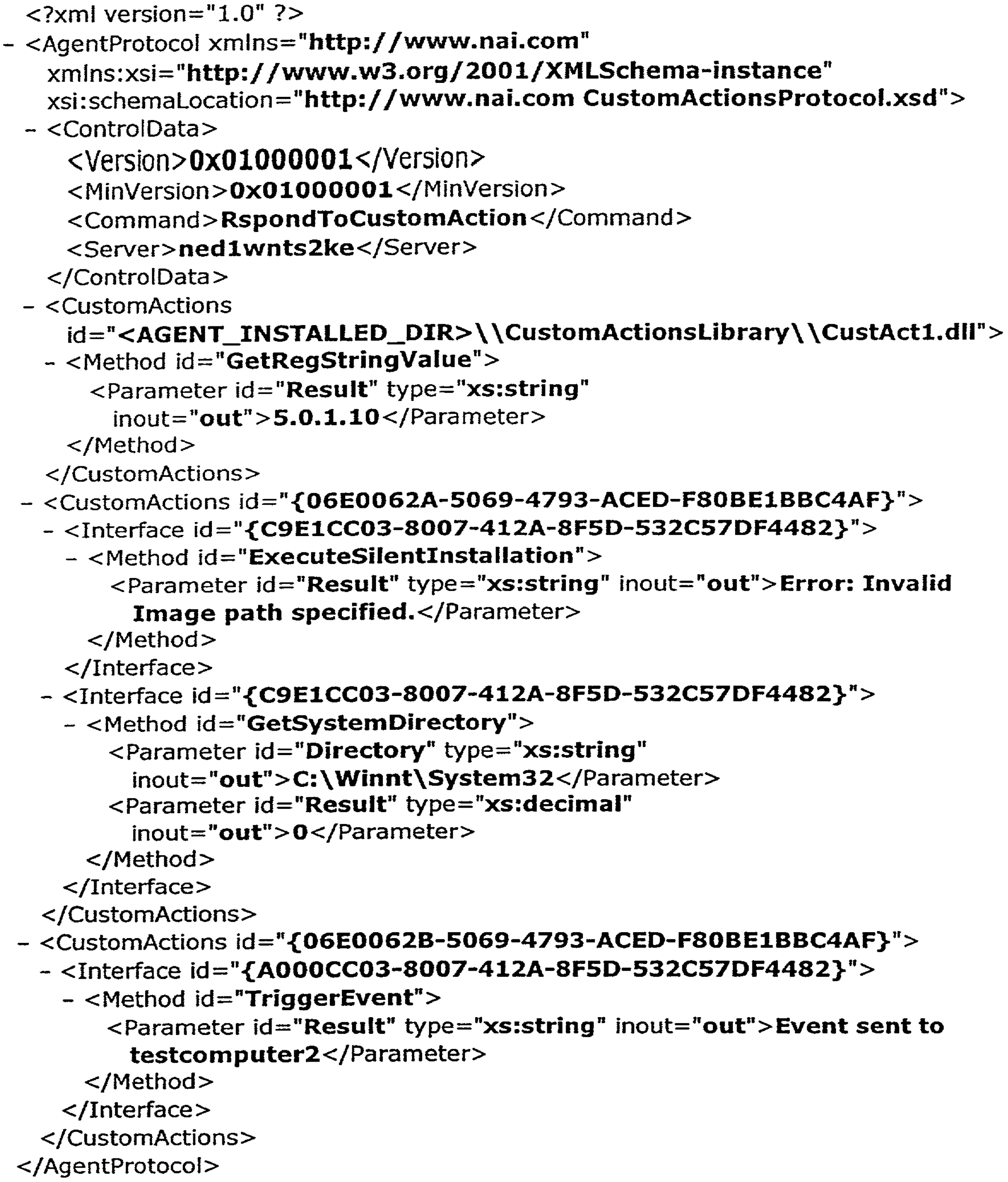
CUSTOM ACTIONS PROTOCOL RESP XML

FIG. 10A

```
        inout="in">Nimbda</Parameter>
          <Parameter id="ENGINEVERSION" type="xs:decimal"
            inout="in">0x04005001</Parameter>
          <Parameter id="DATVERSION" type="xs:decimal"
            inout="in">0x07003009</Parameter>
          <Parameter id="Result" type="xs:string" inout="out" />
        </Method>
      </Interface>
    </CustomActions>
  </AgentProtocol>
```

CUSTOM ACTIONS PROTOCOL REQ XML

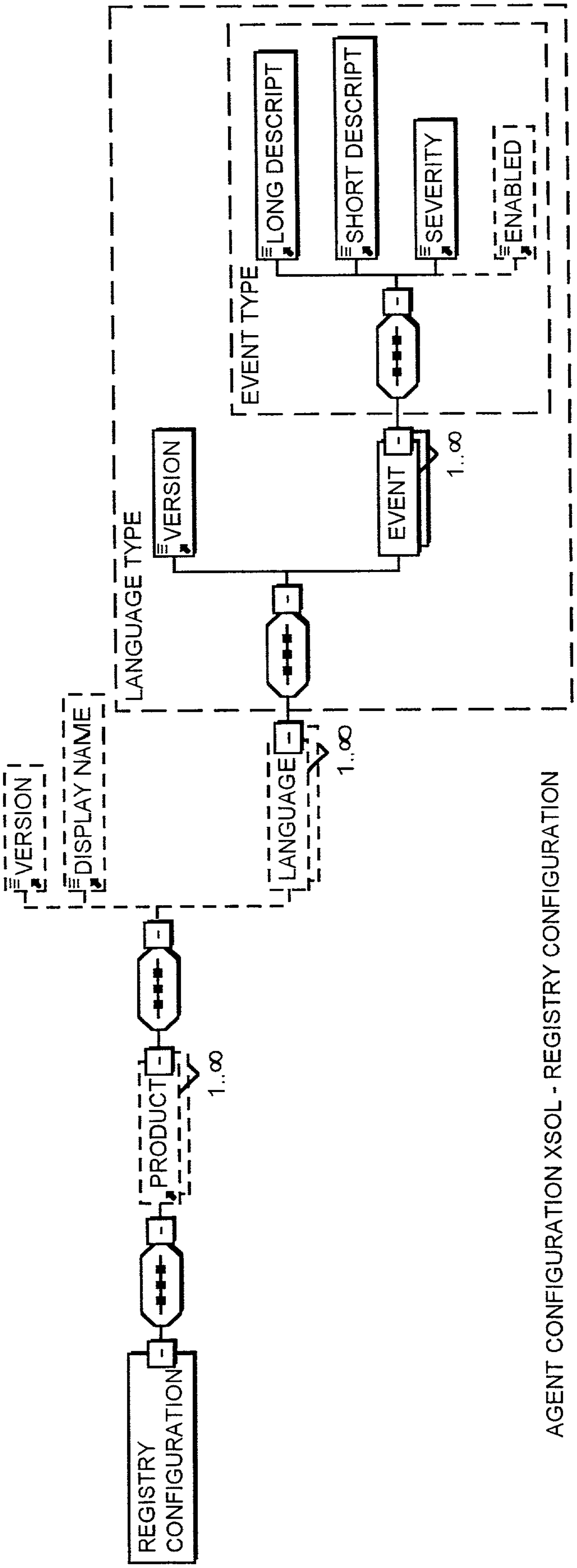
FIG. 10B



```
  <?xml version="1.0" ?>
- <AgentProtocol xmlns="http://www.nai.com"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.nai.com CustomActionsProtocol.xsd">
  - <ControlData>
      <Version>0x01000001</Version>
      <MinVersion>0x01000001</MinVersion>
      <Command>RspondToCustomAction</Command>
      <Server>ned1wnts2ke</Server>
    </ControlData>
  - <CustomActions
      id="<AGENT_INSTALLED_DIR>\\CustomActionsLibrary\\CustAct1.dll">
    - <Method id="GetRegStringValue">
        <Parameter id="Result" type="xs:string"
          inout="out">5.0.1.10</Parameter>
      </Method>
    </CustomActions>
  - <CustomActions id="{06E0062A-5069-4793-ACED-F80BE1BBC4AF}">
    - <Interface id="{C9E1CC03-8007-412A-8F5D-532C57DF4482}">
      - <Method id="ExecuteSilentInstallation">
          <Parameter id="Result" type="xs:string" inout="out">Error: Invalid
            Image path specified.</Parameter>
        </Method>
      </Interface>
    - <Interface id="{C9E1CC03-8007-412A-8F5D-532C57DF4482}">
      - <Method id="GetSystemDirectory">
          <Parameter id="Directory" type="xs:string"
            inout="out">C:\Winnt\System32</Parameter>
          <Parameter id="Result" type="xs:decimal"
            inout="out">0</Parameter>
        </Method>
      </Interface>
    </CustomActions>
  - <CustomActions id="{06E0062B-5069-4793-ACED-F80BE1BBC4AF}">
    - <Interface id="{A000CC03-8007-412A-8F5D-532C57DF4482}">
      - <Method id="TriggerEvent">
          <Parameter id="Result" type="xs:string" inout="out">Event sent to
            testcomputer2</Parameter>
        </Method>
      </Interface>
    </CustomActions>
  </AgentProtocol>
```

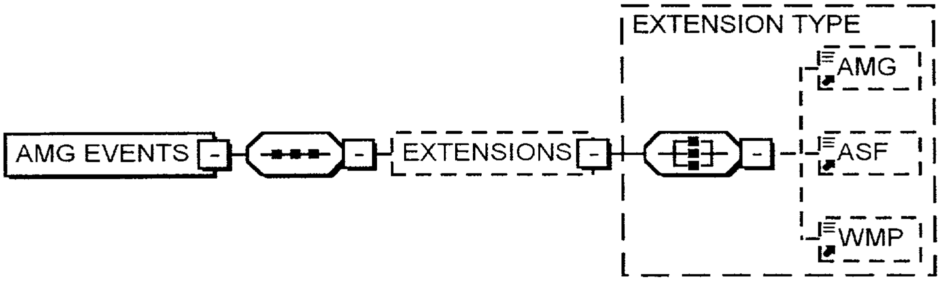
CUSTOM ACTIONS PROTOCOL RESP XML

FIG. 11



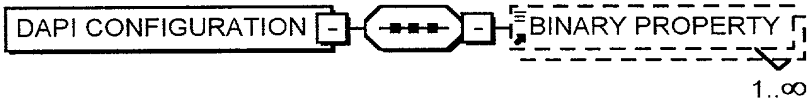
AGENT CONFIGURATION XSOL - REGISTRY CONFIGURATION

FIG. 12



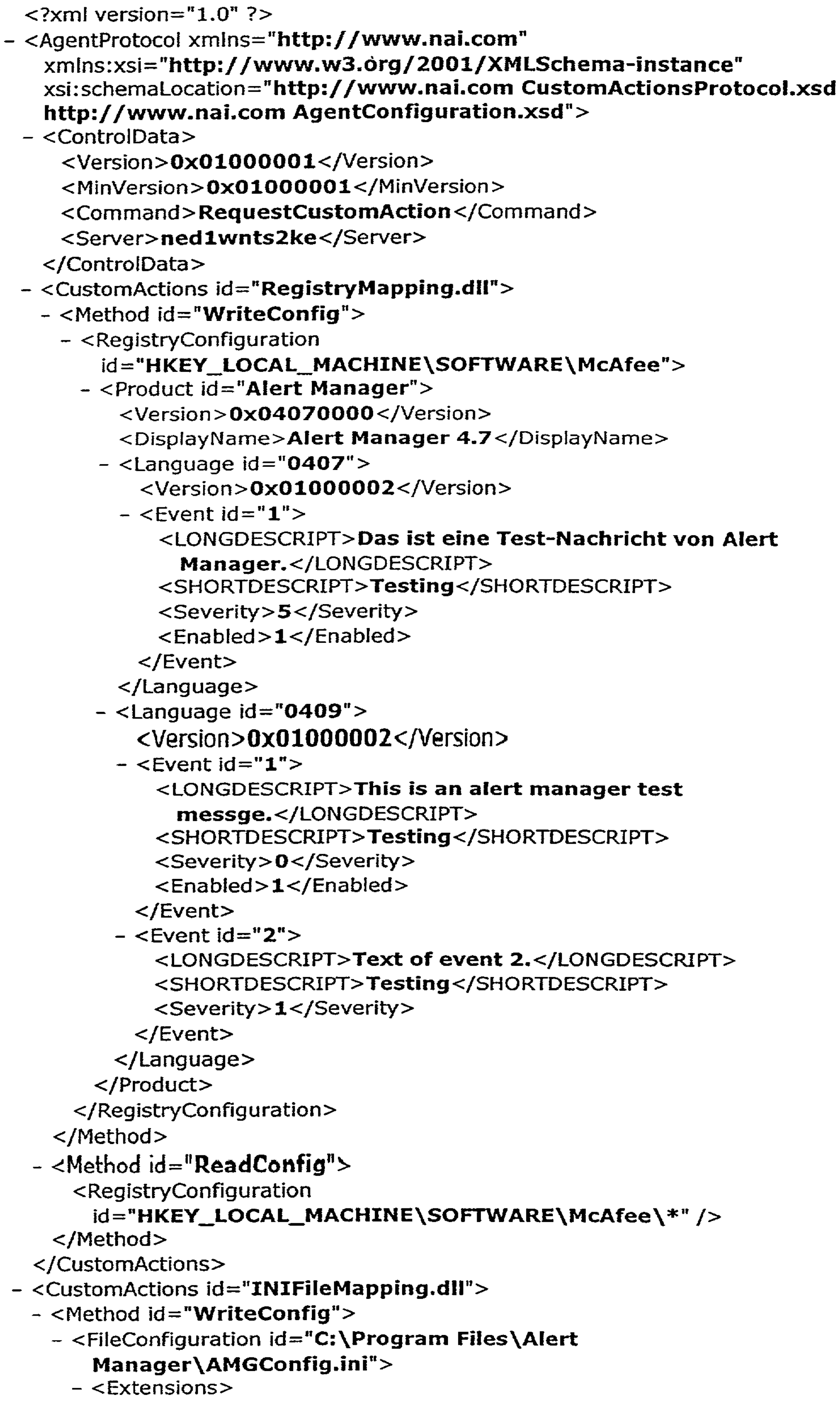
AGENT CONFIGURATION XSOL - FILE CONFIGURATION

FIG. 13



AGENT CONFIGURATION XSOL - DAPI CONFIGURATION

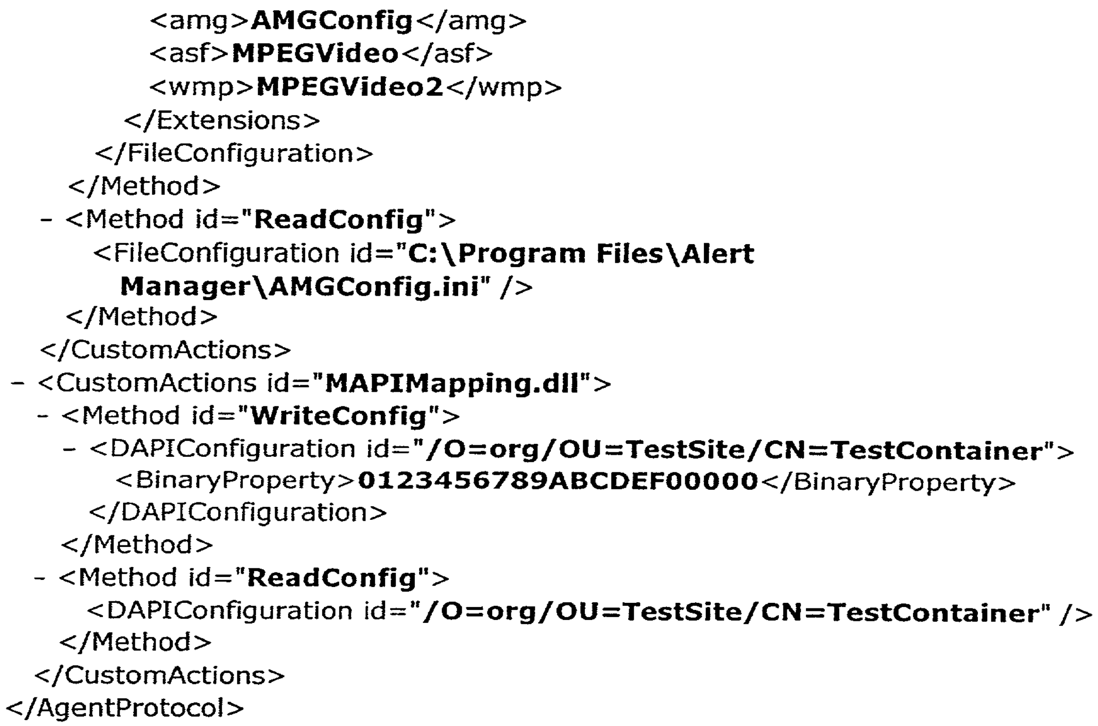
FIG. 14



```
  <?xml version="1.0" ?>
- <AgentProtocol xmlns="http://www.nai.com"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.nai.com CustomActionsProtocol.xsd
    http://www.nai.com AgentConfiguration.xsd">
  - <ControlData>
      <Version>0x01000001</Version>
      <MinVersion>0x01000001</MinVersion>
      <Command>RequestCustomAction</Command>
      <Server>ned1wnts2ke</Server>
    </ControlData>
  - <CustomActions id="RegistryMapping.dll">
    - <Method id="WriteConfig">
      - <RegistryConfiguration
          id="HKEY_LOCAL_MACHINE\SOFTWARE\McAfee">
        - <Product id="Alert Manager">
            <Version>0x04070000</Version>
            <DisplayName>Alert Manager 4.7</DisplayName>
          - <Language id="0407">
              <Version>0x01000002</Version>
            - <Event id="1">
                <LONGDESCRIPT>Das ist eine Test-Nachricht von Alert
                  Manager.</LONGDESCRIPT>
                <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
                <Severity>5</Severity>
                <Enabled>1</Enabled>
              </Event>
            </Language>
          - <Language id="0409">
              <Version>0x01000002</Version>
            - <Event id="1">
                <LONGDESCRIPT>This is an alert manager test
                  messge.</LONGDESCRIPT>
                <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
                <Severity>0</Severity>
                <Enabled>1</Enabled>
              </Event>
            - <Event id="2">
                <LONGDESCRIPT>Text of event 2.</LONGDESCRIPT>
                <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
                <Severity>1</Severity>
              </Event>
            </Language>
          </Product>
        </RegistryConfiguration>
      </Method>
    - <Method id="ReadConfig">
        <RegistryConfiguration
          id="HKEY_LOCAL_MACHINE\SOFTWARE\McAfee\*" />
      </Method>
    </CustomActions>
  - <CustomActions id="INIFileMapping.dll">
    - <Method id="WriteConfig">
      - <FileConfiguration id="C:\Program Files\Alert
          Manager\AMGConfig.ini">
        - <Extensions>
```

AGENT CONFIG CUSTOM ACTION XML

FIG. 15A



```
              <amg>AMGConfig</amg>
              <asf>MPEGVideo</asf>
              <wmp>MPEGVideo2</wmp>
            </Extensions>
          </FileConfiguration>
        </Method>
      - <Method id="ReadConfig">
          <FileConfiguration id="C:\Program Files\Alert
            Manager\AMGConfig.ini" />
        </Method>
      </CustomActions>
    - <CustomActions id="MAPIMapping.dll">
      - <Method id="WriteConfig">
        - <DAPIConfiguration id="/O=org/OU=TestSite/CN=TestContainer">
            <BinaryProperty>0123456789ABCDEF00000</BinaryProperty>
          </DAPIConfiguration>
        </Method>
      - <Method id="ReadConfig">
          <DAPIConfiguration id="/O=org/OU=TestSite/CN=TestContainer" />
        </Method>
      </CustomActions>
    </AgentProtocol>
```

AGENT CONFIG CUSTOM ACTION XML

FIG. 15B

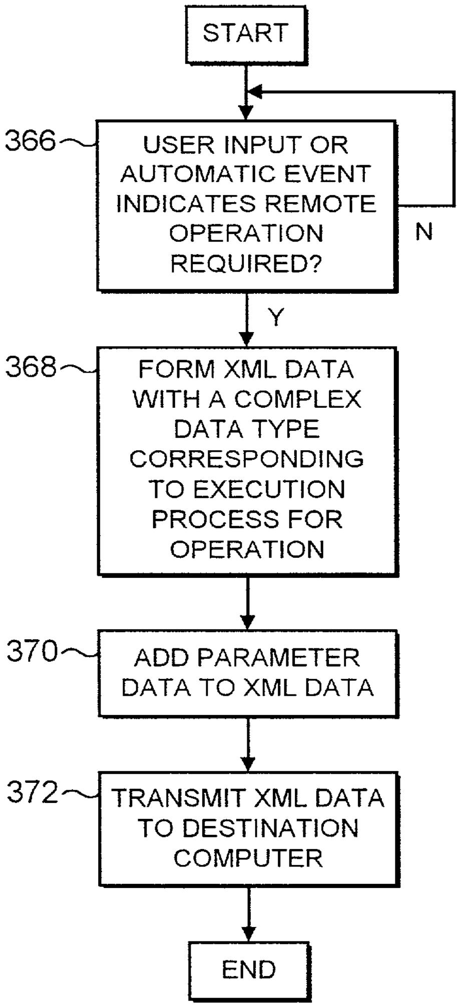

START
366
USER INPUT OR AUTOMATIC EVENT INDICATES REMOTE OPERATION REQUIRED?
N
Y
368
FORM XML DATA WITH A COMPLEX DATA TYPE CORRESPONDING TO EXECUTION PROCESS FOR OPERATION
370
ADD PARAMETER DATA TO XML DATA
372
TRANSMIT XML DATA TO DESTINATION COMPUTER
END

FIG. 16

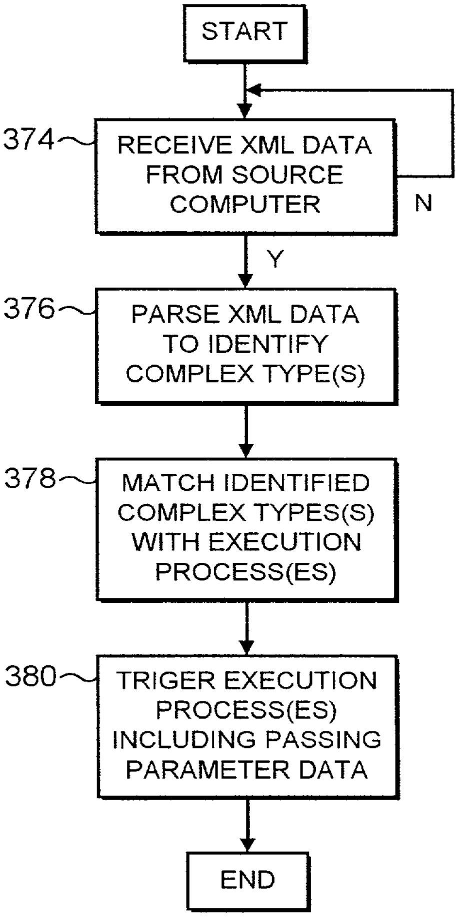
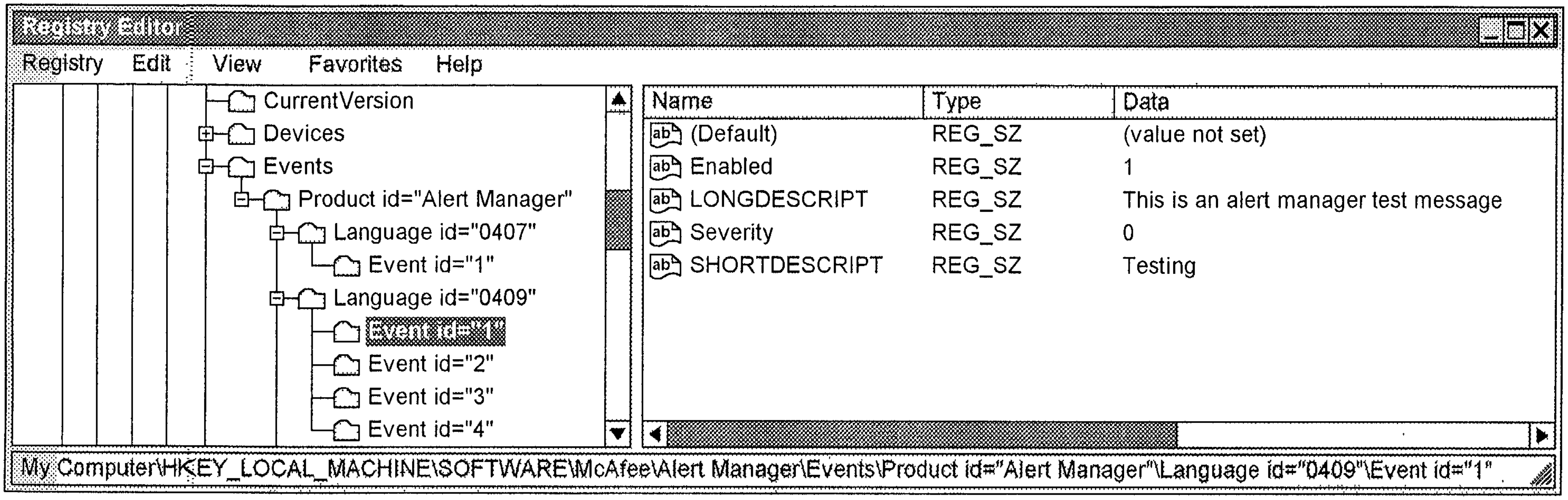

START
374
RECEIVE XML DATA FROM SOURCE COMPUTER
N
Y
376
PARSE XML DATA TO IDENTIFY COMPLEX TYPE(S)
378
MATCH IDENTIFIED COMPLEX TYPES(S) WITH EXECUTION PROCESS(ES)
380
TRIGER EXECUTION PROCESS(ES) INCLUDING PASSING PARAMETER DATA
END

FIG. 17

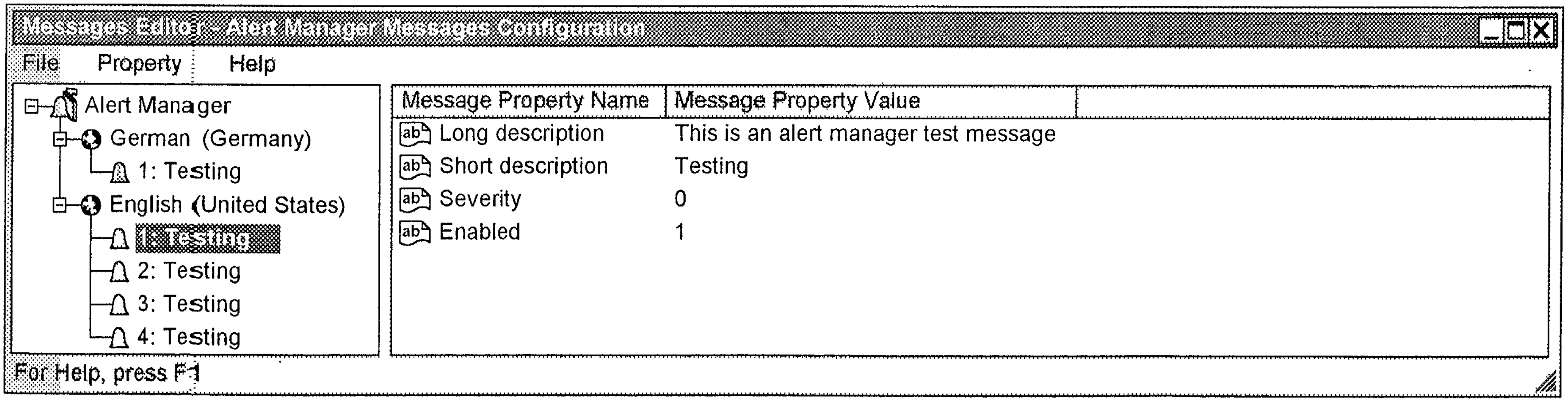


CurrentVersion
Devices
Events
Product id="Alert Manager"
Language id="0407"
Event id="1"
Language id="0409"
Event id="1"
Event id="2"
Event id="3"
Event id="4"

Name	Type	Data
(Default)	REG_SZ	(value not set)
Enabled	REG_SZ	1
LONGDESCRIPT	REG_SZ	This is an alert manager test message
Severity	REG_SZ	0
SHORTDESCRIPT	REG_SZ	Testing

My Computer\HKEY_LOCAL_MACHINE\SOFTWARE\McAfee\Alert Manager\Events\Product id="Alert Manager"\Language id="0409"\Event id="1"

REGISTRY DATA FIG. 18

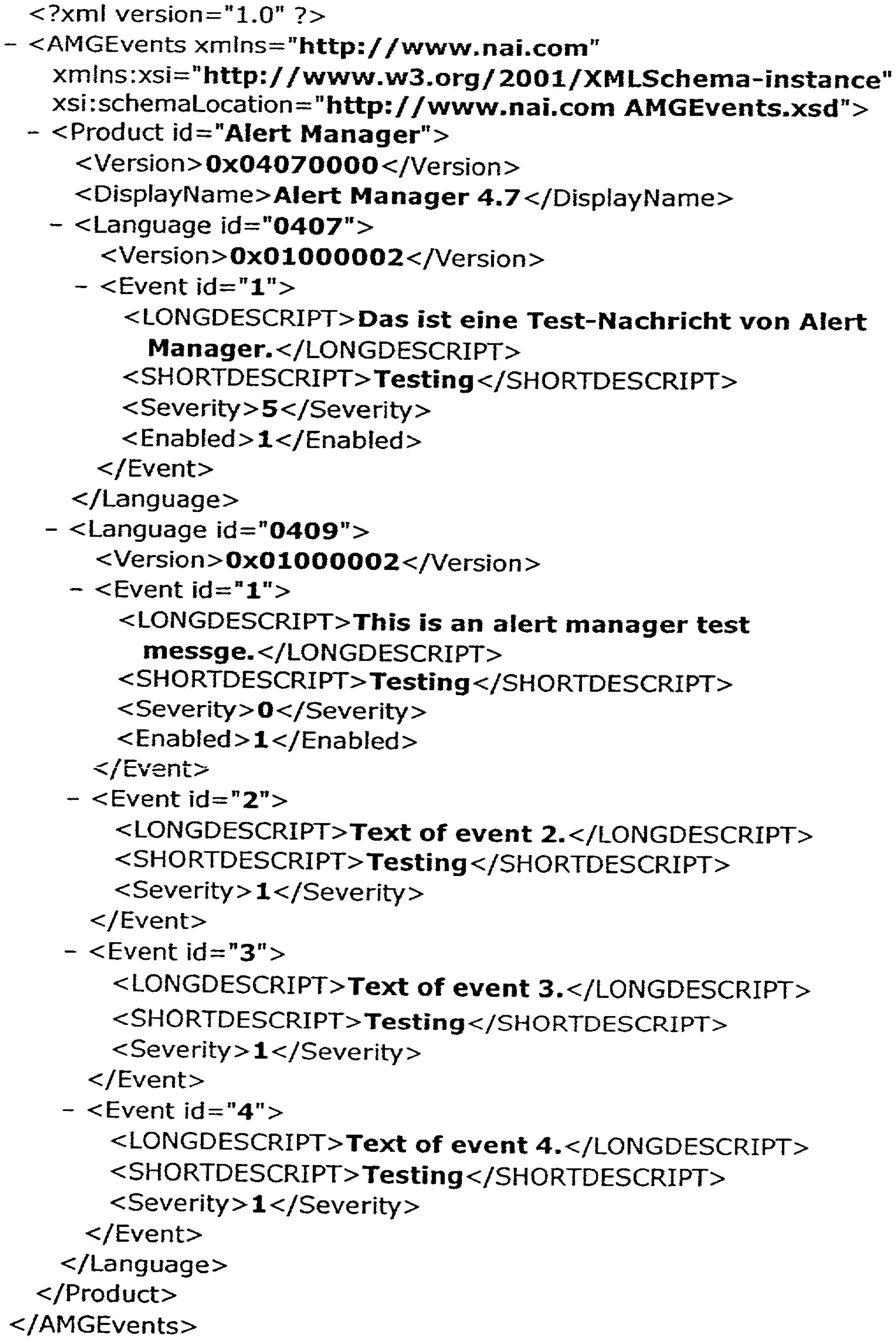


Alert Manager
German (Germany)
1: Testing
English (United States)
1: Testing
2: Testing
3: Testing
4: Testing

Message Property Name	Message Property Value
Long description	This is an alert manager test message
Short description	Testing
Severity	0
Enabled	1

For Help, press F1

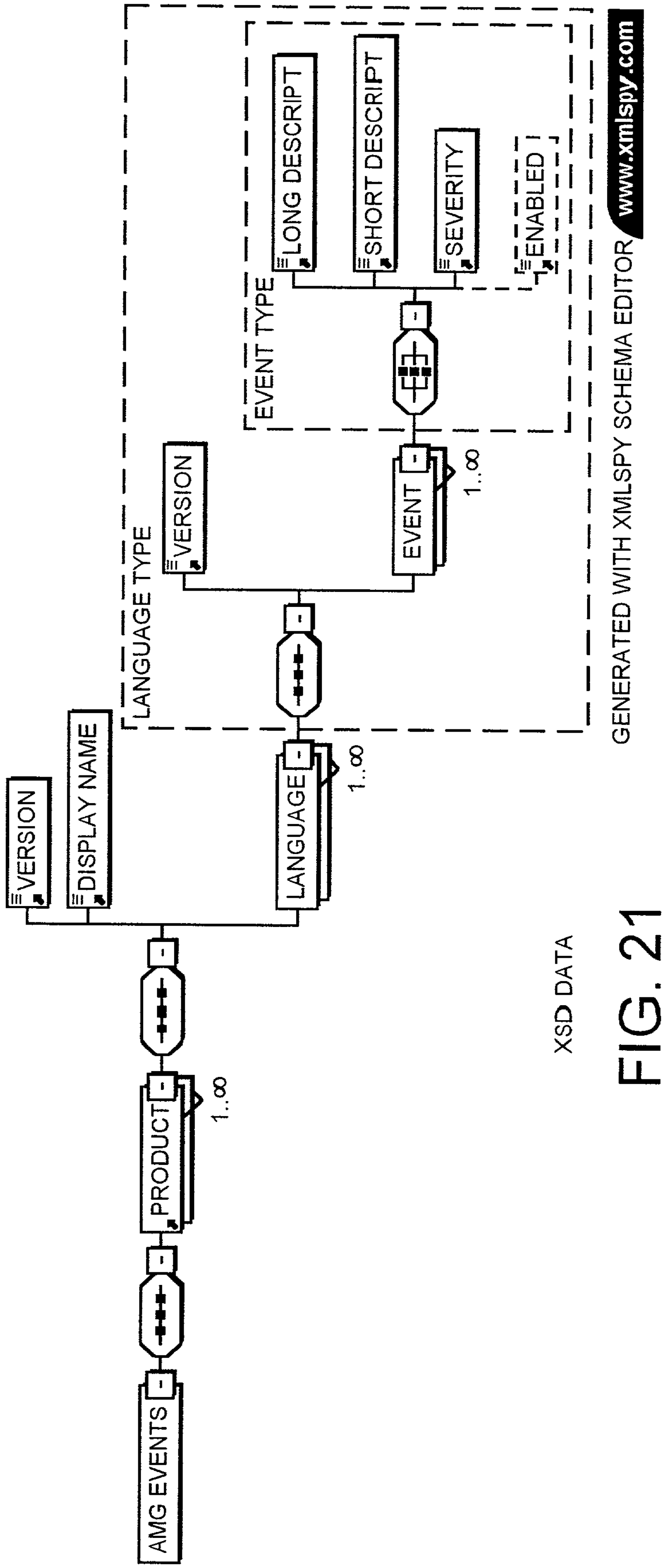
DOM DATA VIEW FIG. 19



```
  <?xml version="1.0" ?>
- <AMGEvents xmlns="http://www.nai.com"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.nai.com AMGEvents.xsd">
  - <Product id="Alert Manager">
      <Version>0x04070000</Version>
      <DisplayName>Alert Manager 4.7</DisplayName>
    - <Language id="0407">
        <Version>0x01000002</Version>
      - <Event id="1">
          <LONGDESCRIPT>Das ist eine Test-Nachricht von Alert
            Manager.</LONGDESCRIPT>
          <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
          <Severity>5</Severity>
          <Enabled>1</Enabled>
        </Event>
      </Language>
    - <Language id="0409">
        <Version>0x01000002</Version>
      - <Event id="1">
          <LONGDESCRIPT>This is an alert manager test
            messge.</LONGDESCRIPT>
          <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
          <Severity>0</Severity>
          <Enabled>1</Enabled>
        </Event>
      - <Event id="2">
          <LONGDESCRIPT>Text of event 2.</LONGDESCRIPT>
          <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
          <Severity>1</Severity>
        </Event>
      - <Event id="3">
          <LONGDESCRIPT>Text of event 3.</LONGDESCRIPT>
          <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
          <Severity>1</Severity>
        </Event>
      - <Event id="4">
          <LONGDESCRIPT>Text of event 4.</LONGDESCRIPT>
          <SHORTDESCRIPT>Testing</SHORTDESCRIPT>
          <Severity>1</Severity>
        </Event>
      </Language>
    </Product>
  </AMGEvents>
```

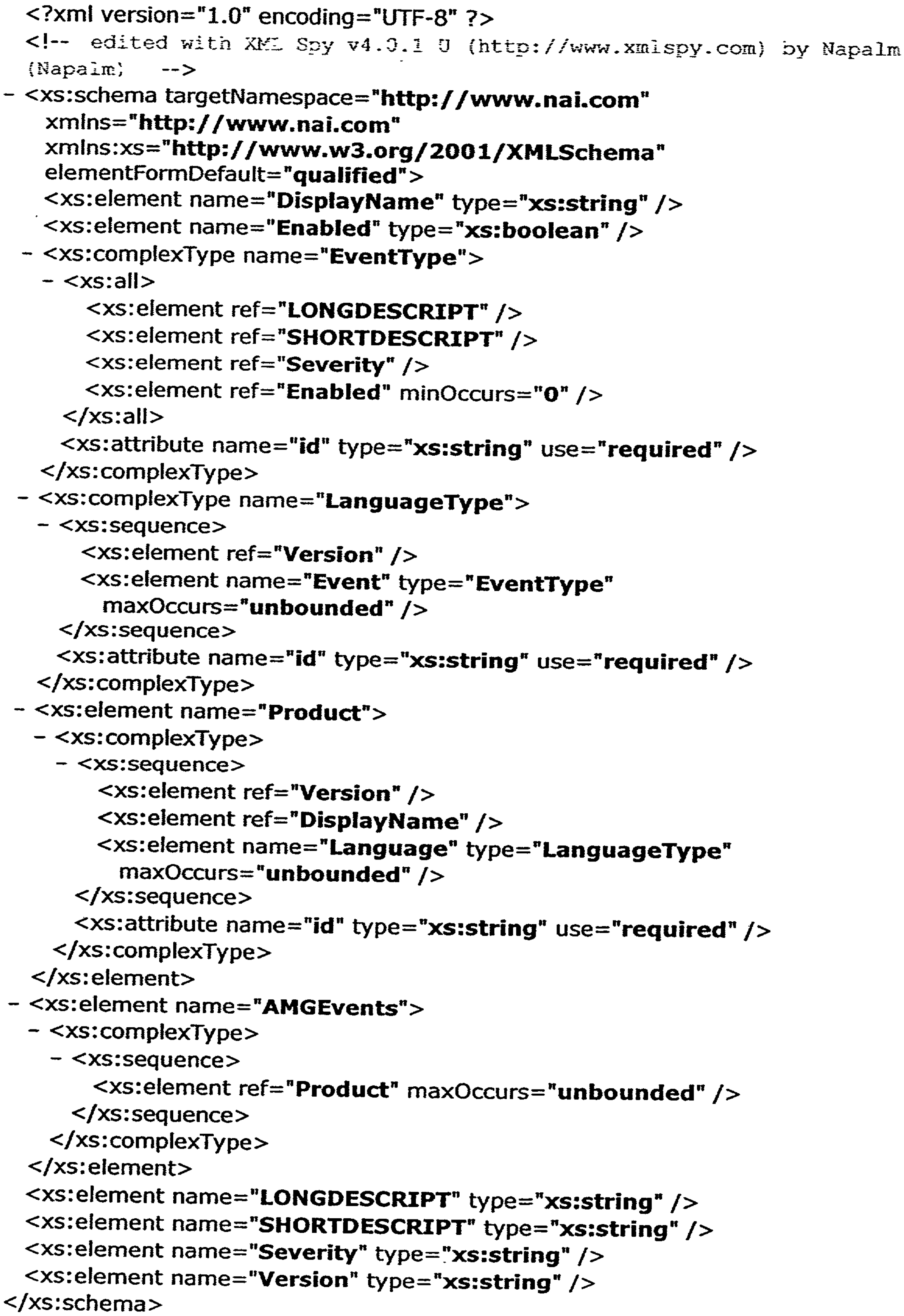
XML DATA

FIG. 20



XSD DATA

FIG. 21



```
  <?xml version="1.0" encoding="UTF-8" ?>
  <!-- edited with XML Spy v4.0.1 U (http://www.xmlspy.com) by Napalm
  (Napalm) -->
- <xs:schema targetNamespace="http://www.nai.com"
    xmlns="http://www.nai.com"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified">
    <xs:element name="DisplayName" type="xs:string" />
    <xs:element name="Enabled" type="xs:boolean" />
  - <xs:complexType name="EventType">
    - <xs:all>
        <xs:element ref="LONGDESCRIPT" />
        <xs:element ref="SHORTDESCRIPT" />
        <xs:element ref="Severity" />
        <xs:element ref="Enabled" minOccurs="0" />
      </xs:all>
      <xs:attribute name="id" type="xs:string" use="required" />
    </xs:complexType>
  - <xs:complexType name="LanguageType">
    - <xs:sequence>
        <xs:element ref="Version" />
        <xs:element name="Event" type="EventType"
          maxOccurs="unbounded" />
      </xs:sequence>
      <xs:attribute name="id" type="xs:string" use="required" />
    </xs:complexType>
  - <xs:element name="Product">
    - <xs:complexType>
      - <xs:sequence>
          <xs:element ref="Version" />
          <xs:element ref="DisplayName" />
          <xs:element name="Language" type="LanguageType"
            maxOccurs="unbounded" />
        </xs:sequence>
        <xs:attribute name="id" type="xs:string" use="required" />
      </xs:complexType>
    </xs:element>
  - <xs:element name="AMGEvents">
    - <xs:complexType>
      - <xs:sequence>
          <xs:element ref="Product" maxOccurs="unbounded" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="LONGDESCRIPT" type="xs:string" />
    <xs:element name="SHORTDESCRIPT" type="xs:string" />
    <xs:element name="Severity" type="xs:string" />
    <xs:element name="Version" type="xs:string" />
  </xs:schema>
```

XSD DATA

FIG. 22

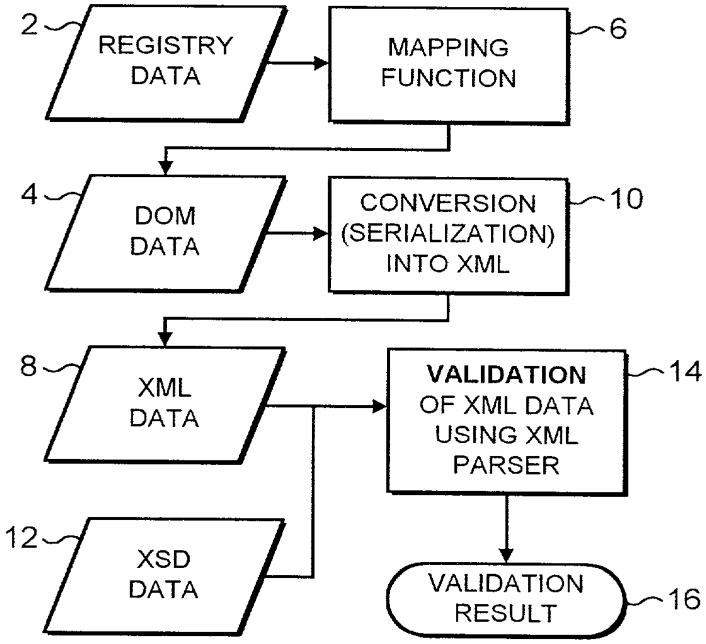

2
REGISTRY DATA
MAPPING FUNCTION
6
4
DOM DATA
CONVERSION (SERIALIZATION) INTO XML
10
8
XML DATA
VALIDATION OF XML DATA USING XML PARSER
14
12
XSD DATA
VALIDATION RESULT
16

FIG. 23

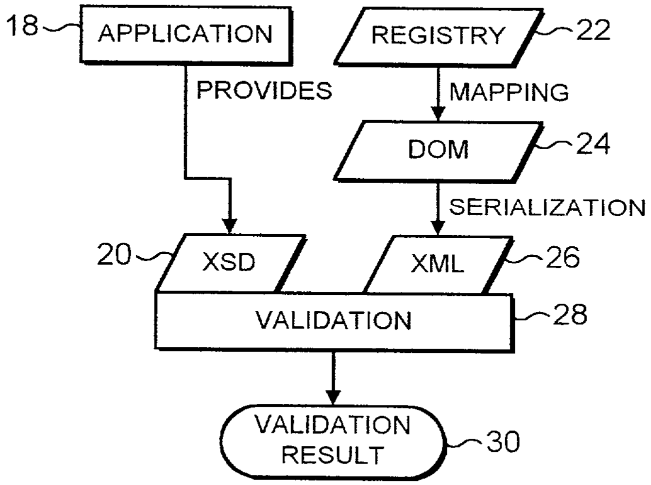

18
APPLICATION
PROVIDES
REGISTRY
22
MAPPING
DOM
24
SERIALIZATION
20
XSD
XML
26
VALIDATION
28
VALIDATION RESULT
30

FIG. 24

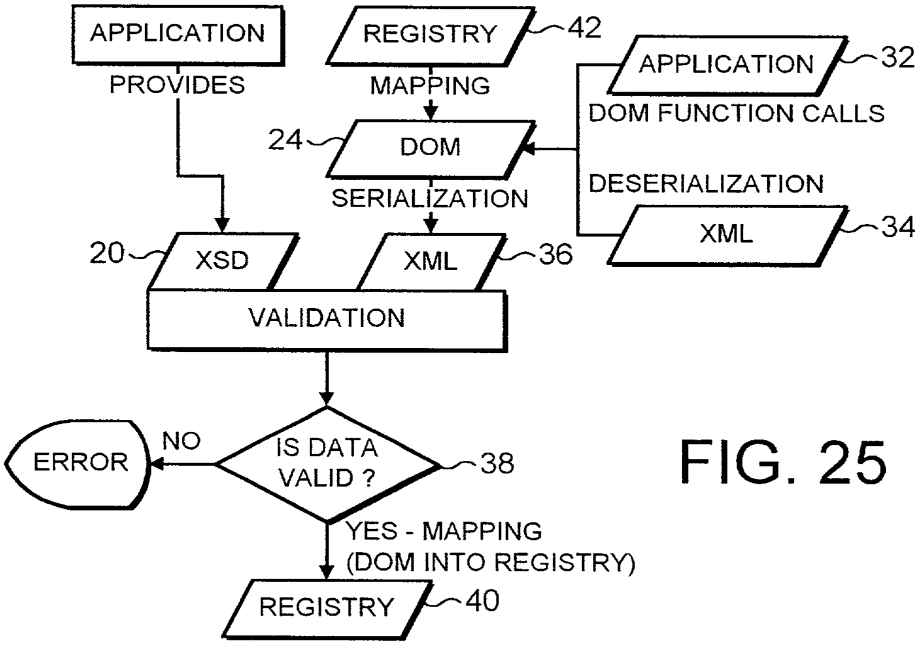

APPLICATION
PROVIDES
REGISTRY
42
MAPPING
APPLICATION
32
DOM FUNCTION CALLS
24
DOM
DESERIALIZATION
SERIALIZATION
XML
34
20
XSD
XML
36
VALIDATION
ERROR
NO
IS DATA VALID ?
38
YES - MAPPING (DOM INTO REGISTRY)
REGISTRY
40

FIG. 25

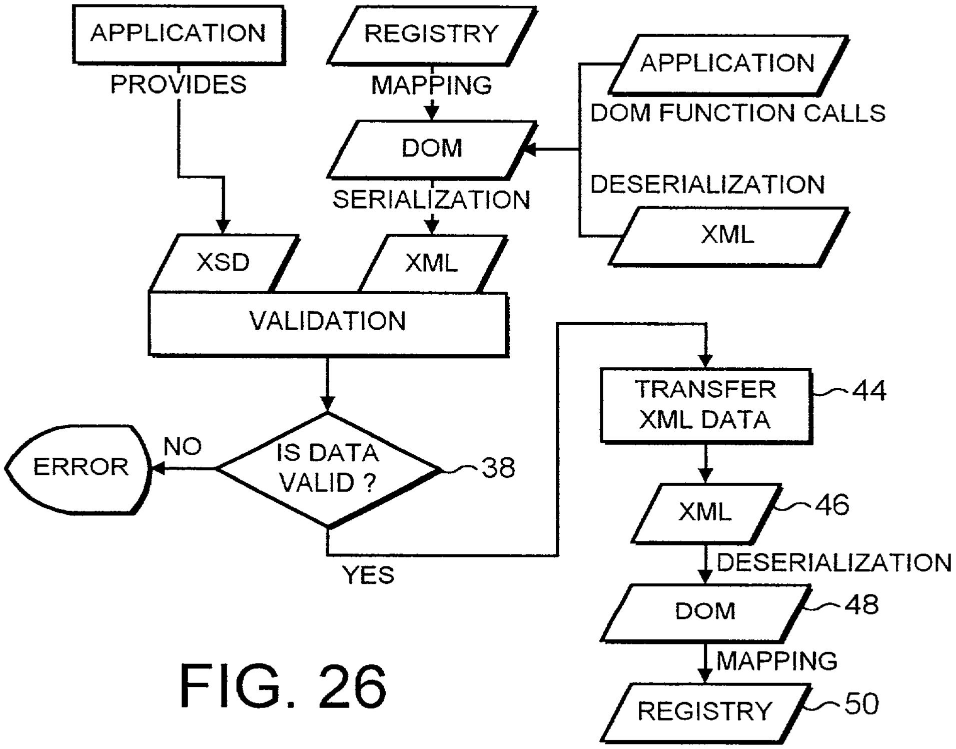

APPLICATION
PROVIDES
REGISTRY
MAPPING
APPLICATION
DOM FUNCTION CALLS
DOM
DESERIALIZATION
SERIALIZATION
XML
XSD
XML
VALIDATION
TRANSFER XML DATA
44
ERROR
NO
IS DATA VALID ?
38
XML
46
YES
DESERIALIZATION
DOM
48
MAPPING
REGISTRY
50

FIG. 26

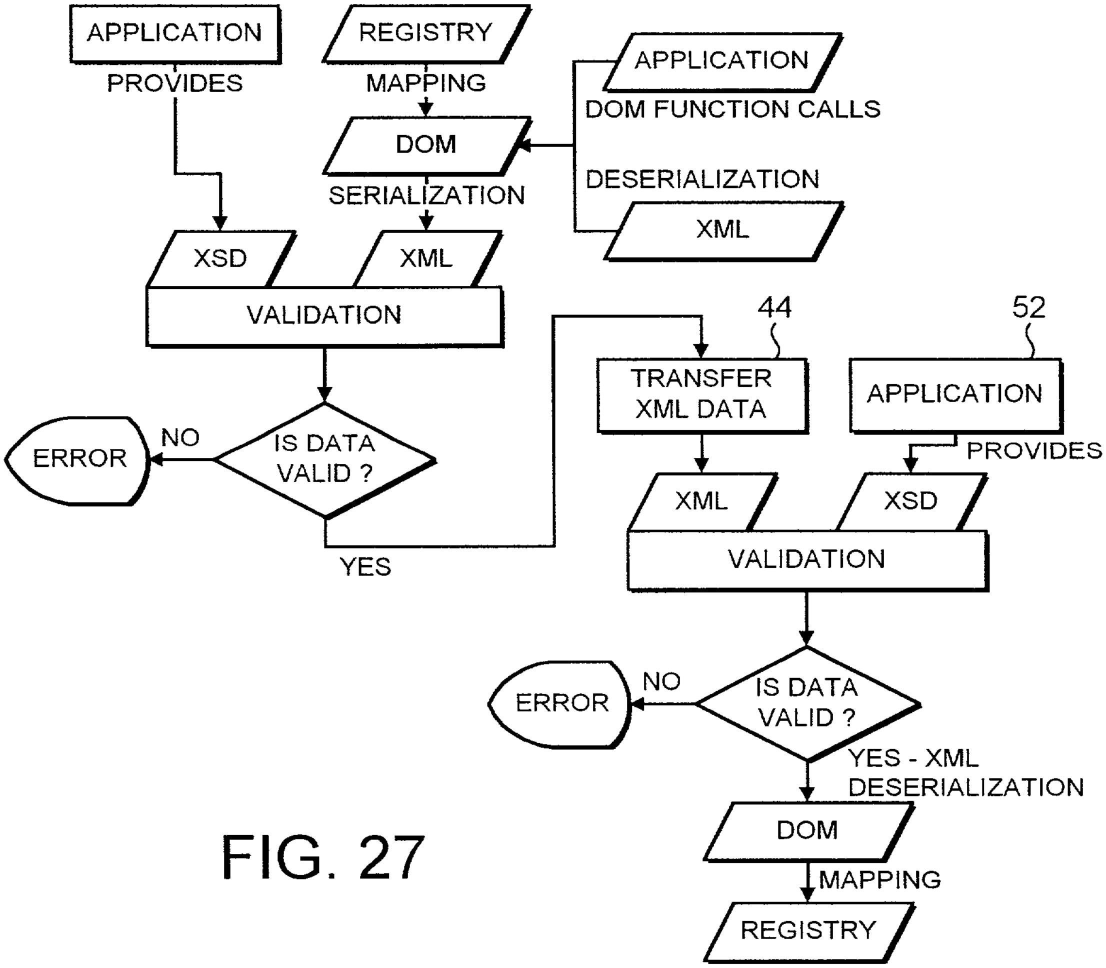

APPLICATION
PROVIDES
REGISTRY
MAPPING
DOM
SERIALIZATION
APPLICATION
DOM FUNCTION CALLS
DESERIALIZATION
XML
XSD
XML
VALIDATION
IS DATA VALID ?
NO
ERROR
YES
44
TRANSFER XML DATA
52
APPLICATION
PROVIDES
XML
XSD
VALIDATION
IS DATA VALID ?
NO
ERROR
YES - XML DESERIALIZATION
DOM
MAPPING
REGISTRY

FIG. 27

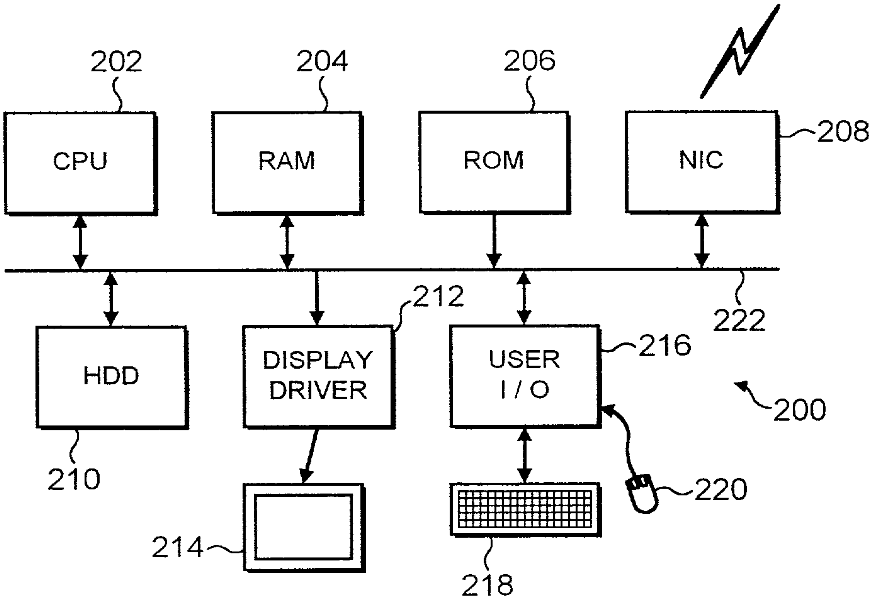

202
CPU
204
RAM
206
ROM
NIC
208
222
HDD
210
212
DISPLAY DRIVER
USER I / O
216
200
214
218
220

FIG. 28